

Military Applications Summary Bulk report on technology developments in Europe and the Middle East. The material contained in the Bulletins should in no way be construed as an endorsement of any product or service described therein.

OFFICE OF NAVAL RESEARCH EUROPEAN OFFICE Box 39, FPO New York 09510-0700 Phone (AV)235-4131 (Comm) 409-4131

MASB 30-89

2 May 1989

DM 109 UNDERWATER ACOUSTIC SIGNAL

Background. DIEHL GmbH & Co. has developed the DM 109 Underwater Acoustic Signal for use as a hand-thrown, submarine acoustic signaling device.

Description. The DM 109 consists of an explosive charge and detonating fuse. The fuse has pyrotechnic delay and hydrostatic switch built in. Handling of the DM 109 is similar to the handling of a conventional hand grenade. When the safety pin is pulled and the DM 109 is thrown overboard, the spring-loaded safety lever is thrown off and the device is armed. As the DM 109 reaches a water depth of between 3 and 6 meters, the hydrostatic switch operates and commences the detonation sequence, and the grenade explodes at a depth of 7 to 10 meters.

For further information contact DIEHL GmbH & Co., Wehrtechnik, Fischbachstrasse 16, D-8505 Röthenbach, Federal Republic of Germany. Telephone 0911/5977-1, Telex 6/22481.

ONREUR point of contact is CDR R. H. Taylor, USN, Undersea Systems Officer.

Distribution:Diver/Special Warfare
Submarine

AD-A271 895

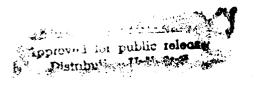
Delay charge in hand grenade fuze 2.31 g

Technical Data



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Ignition delay assembly comprises primer DM 1024 A1 B1, delay charge,
and booster
Detonator
Booster
Delay time
Detonator armed after 2.4 s
Pressure required to release the hydrostatic switch 0.3 to 0.6 bar
Detonation depth
Rate of descent
Weights
Grenade body
Fuze
Total weight
Explosives
High-explusive charge (Tetryl)
Delay charge in hand grenade fuze 2.31 g

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